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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/715,202	11/17/2003	Douglas Deeds	NC34853 (9023.005)	2232

7590 07/26/2005  
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EXAMINER

EKONG, EMEM

ART UNIT PAPER NUMBER

2681

DATE MAILED: 07/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/715,202

Applicant(s)

DEEDS, DOUGLAS

Examiner

EMEM EKONG

Art Unit

2681

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 17 November 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-3, 5-12, and 14-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6289084 B1 to Willaim J. Bushnell (Bushnell) in view of U.S. Publication No. 2002/0099846 A1 to Scott G. Hicks (Hicks)

Regarding claims 1, and 15, Bushnell discloses a method and a radiotelephonic device operable in a radiotelephonic communication system, an improvement of user interface apparatus for facilitating selectable call screening of a terminating call placed by a calling station and delivered to the radiotelephonic device, said method and user interface apparatus comprising (abstract, figure 5 and col. 1 line 64-col. 2 line 8):

a comparator adapted to receive indications of the terminating call delivered to the radiotelephonic device together with an originating dialing number associated therewith (reads on detecting delivering step of claim 15) and to said calling-group listing, said comparator for comparing the originating dialing number with the first-group set of dialing numbers and for determining whether the originating dialing number corresponds with the first-group set of dialing numbers and for determining whether the

Art Unit: 2681

originating dialing number matches any of the first-group set of dialing numbers (see figure 2, col. 2 lines 52-56 and col.7 lines 10-25); and

a call acceptor adapted to receive indications of determinations made by said comparator, said call acceptor for selectably accepting the terminating call when said comparator determines the originating dialing number to match any of the first-group set of dialing numbers (see figures 1, 2, and 3 and col. 2 lines 57-67, and col. 12 line 55-col. 13 line11).

However, Bushnell fails to specifically disclose user interface apparatus comprising a calling-group listing formed of a first-group set of dialing numbers, the first-group set of dialing numbers corresponding to a speed-dial set of dialing numbers selectably used at the radiotelephonic device pursuant to a speed dialing procedure.

In a similar field of endeavor of endeavor, Hicks discloses a method of storing e-mail address information on a SIM card. Hicks further discloses user interface apparatus comprising a calling-group listing (i.e. speed dial numbers or list, screening list) formed of a first-group set of dialing numbers, the first-group set of dialing numbers corresponding to a speed-dial set of dialing numbers selectably used at the radiotelephonic device pursuant to a speed dialing procedure (paragraph 0005).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the apparatus of Bushnell with the teachings of Hicks on forming a first-group set of dialing numbers corresponding to a speed-dial set of dialing numbers for the purpose of eliminating the need of reprogramming phone numbers each time a call is made.

Regarding claims 2, and 16, the combination of Bushnell and Hicks discloses the apparatus of claim 1, and the method of claim 15 further comprising an annunciator adapted to receive indications of call acceptance by said call acceptor, said annunciator for selectably annunciating the terminating call in a selected manner when the terminating call is accepted by said call acceptor (Bushnell, col. 2 line 66-col. 3 line 1, col. 10 lines 5-6, and col. 13 lines 18-19).

Regarding claim 3, the combination of Bushnell and Hicks discloses the apparatus of claim 2 wherein said annunciator comprises an aural annunciator, and wherein said aural annunciator selectably annunciates the terminating call with an aural sequence of sounds (Bushnell, col. 2 line 66-col. 3 line 1).

Regarding claims 5,6,7 and 19, Bushnell discloses apparatus of claim 1 and the method of claim 15, and further discloses a calling-group listing creator adapted to receive indications of a set of dialing numbers, said calling-group listing creator for creating said calling-group listing (Bushnell, col. 4 lines 44-51).

However, Bushnell does not teach that the radiotelephonic device comprises a removable memory element and wherein said calling-group listing is formed at the removable memory element,

wherein the speed-dial set of dialing numbers is further formed at the removable memory element, and the set of dialing number is a speed-dial set.

Hicks discloses wherein the radiotelephonic device comprises a removable memory element (SIM card) and wherein said calling-group listing is formed at the removable memory element,

wherein the speed-dial set of dialing numbers is further formed at the removable memory element (SIM card); and the set of dialing number is a speed-dial set (Hicks, paragraph 0005);

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the apparatus of Bushnell with the teachings of Hicks for the purpose that the set of dialing number is created from the speed dial set of dialing numbers for convenience to the user and stored in a removable memory element (SIM Card) for free association with other mobile communication devices.

Regarding claim 8, the combination of Bushnell and Hicks discloses the apparatus of claim 7 wherein the radiotelephonic device comprises a memory element and wherein said calling-group listing, once created by said calling-group listing creator, is stored by said calling group listing creator at the memory element (Bushnell, see figure 5, col. 9 lines 34-61 and col. 10 lines 25-26).

Regarding claim 9, the combination of Bushnell and Hicks discloses the apparatus of claim 7 wherein the radiotelephonic device further comprises a user

Art Unit: 2681

actuator, said calling-group listing creator further adapted to receive selected input actuations generated by the user actuator and wherein said calling-group listing creator operates to create said calling-group listing responsive to reception of the selected input actuations (Bushnell, col. 6 lines 21-45).

Regarding claims 10, Bushnell discloses the apparatus of claim 7 wherein said calling group listing creator creates said calling-group listing (affinity database) by copying a set of dialing numbers (i.e. frequently dialed numbers) (Bushnell, col. 4 lines 44-51).

However, Bushnell fails to specifically disclose said calling group listing creator created by copying the speed-dial set of dialing numbers.

Hicks discloses the set of copied numbers being the speed-dial set of dialing numbers (Hicks, par. 0005).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the apparatus of Bushnell with the teachings of Hicks for the purpose that the set of numbers are not retyped to form the calling group listing.

Regarding claim 11, the combination of Bushnell and Hicks discloses the apparatus of claim 1 wherein the originating dialing number comprises a sequence of digits, wherein each dialing number of said calling-group listing also comprises a sequence of digits and wherein said comparator compares values of the digits forming the originating dialing number with corresponding digits of each dialing number of said

Art Unit: 2681

calling-group listing (Bushnell, see figure 2, col. 4 line 64-col. 5 line 7 and col. 7 lines 9-27).

Regarding claim 12, the combination of Bushnell and Hicks discloses the apparatus of claim 1 wherein the radiotelephonic device further comprises a user display and wherein, upon acceptance of the terminating call by said call acceptor, values representative of the originating dialing number, are caused by said call acceptor to be displayed on the user display (Bushnell, See fig. 5 and col. 10 line19).

Regarding claim 14, the combination of Bushnell and Hicks discloses the apparatus of claim 1 wherein said call acceptor is further adapted to receive indications of determinations of said comparator that the originating dialing number fails to match any of the first-group set of dialing numbers, said call acceptor further selectably for generating a call-reject command (Bushnell, col. 3 lines 7-16).

Regarding claim 17 and 18, Bushnell discloses the method of claim 15 wherein the set of dialing numbers is stored at the radiotelephone and wherein said operation of forming the calling-group listing (affinity database) comprises accessing indications of a set of dialing numbers (i.e. frequently used numbers) (Bushnell, see figure 5, col. 4 lines 44-51, col. 9 lines 34-61 and col. 10 lines 25-26);

and the operation of forming further comprises copying the set of dialing numbers (i.e. frequently used numbers) (Bushnell, col. 4 lines 44-51).



However, Bushnell fails to specifically disclose forming the calling-group listing from a set of speed-dial numbers, and the operation of forming further comprises copying the speed-dial set of dialing numbers.

Hicks discloses a speed-dial set of dialing numbers and forming the calling-group listing from a set of speed-dial numbers, (Hicks, par. 0005).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of Bushnell with the teachings of Hicks for the purpose of eliminating the process of reprogramming numbers to form the calling group listing.

Regarding claim 20, the combination of Bushnell and Hicks discloses the method of claim 18 wherein the radiotelephone further comprises a user actuation and wherein said operation of copying is performed responsive to selected actuation of the user actuator (Bushnell, col. 4 lines 44-51 and col. 6 lines 21-45).

3. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bushnell in view of Hicks as applied to claim 3 above, and further in view of U.S. Patent No. 6751485 B2 to Jukka Ranta (Ranta).

The combination of Bushnell and Hicks discloses the apparatus of claim 3. However the combination fails to specifically disclose wherein the aural sequence of sounds is annunciated by said aural annunciator when said comparator determines the

Art Unit: 2681

originating dialing number to match any of the first group set of dialing numbers of said calling group listing.

In a similar field of endeavor, Ranta discloses sounding alert for recent calls. Ranta further discloses wherein the aural sequence of sounds is annunciated by said aural annunciator when said comparator determines the originating dialing number to match any of the first group set of dialing numbers of said calling group listing (abstract, and col. 2 lines 10-20).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the aural sequence of the combination of Buschnell and Hicks with the teachings of Ranta for the purpose that the volume of an output signal, the ringing volume, and the generation of tone sequences upon receiving a call identifies a particular telephone number.

4. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bushnell in view of Hicks as applied to claim 12 above, and further in view of U.S. Patent No. 6741688 B1 to Hunyue Yau (Yau).

The combination of Bushnell and Hicks discloses the apparatus of claim 12. However fails to specifically disclose wherein said calling-group listing further comprises an alpha-numeric identifier associated with each of the dialing numbers of the first-group set forming said calling-group listing and wherein the values representative of the originating dialing number comprises the alpha-numeric identifier associated with the dialing number determined by said comparator to match the originating dialing number.

In a similar field of endeavor, Yau discloses method and apparatus for handling telephone calls. Yau further discloses wherein said calling-group listing further comprises an alpha-numeric identifier associated with each of the dialing numbers of the first-group set forming said calling-group listing and wherein the values representative of the originating dialing number comprises the alphanumeric identifier associated with the dialing number determined by said comparator to match the originating dialing number (col. 11 lines 33-37).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the combination of Bushnell and Hicks apparatus with the teachings of Yau for the purpose that alphanumeric text can be programmed for better caller identification information.

### ***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of the art with respect to the apparatus:

U.S. Pat. No. 4266098 to Albert P. Novak (Novak)

U.S. Pat. No. 5276731 to Ygal Arbel (Arbel et al.)

U.S. Pat. No. 5434906 to Michael J. Robinson (Robinson et al.)

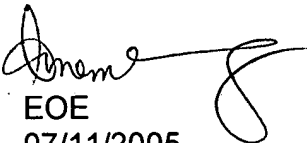
U.S. Pat. No. 5465290 to Thomas H. Hampton (Hampton et al.)


Art Unit: 2681

Any inquiry concerning this communication or earlier communications from the examiner should be directed to EMEM EKONG whose telephone number is 571 272 8129. The examiner can normally be reached on 8-5 Mon-Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JOSEPH FEILD can be reached on 571 272 4090. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
EOE  
07/11/2005

  
JOSEPH FEILD  
SUPERVISORY PATENT EXAMINER